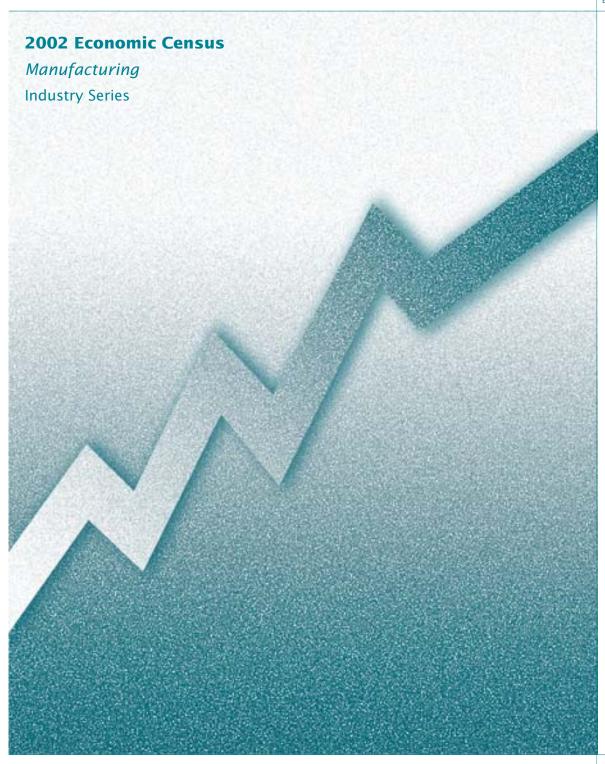
Alumina Refining: 2002

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Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

					Production workers				Total		Total capital
Industry and year ¹	Com- panies ²		Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	shipments	expendi- tures (\$1,000)
331311, Alumina refining	7 N N N N	9 N N N N N N N N N N N N N N N N N N N	1 528 2 983 2 981 2 863 3 004 3 035	88 198 156 862 142 444 132 912 140 710 150 696	1 133 2 197 2 171 2 113 2 258 2 278	2 596 4 553 4 496 4 451 4 994 5 060	59 851 104 172 98 527 90 119 97 849 102 416	435 768 304 752 250 672 265 723 356 424 329 432	392 356 560 737 877 574 898 476 957 643 816 488	822 450 865 744 1 124 660 1 179 228 1 313 383 1 219 057	'13 584 115 914 306 596 98 631 93 391 96 963

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 2. Industry Statistics for Selected States: 2002

[Not applicable for this report]

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331311, Alumina refining	
Companies ¹ number	7
All establishments ²	9 3 3 3
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	1 528 113 138 88 198 24 940
Production workers, average for year	1 133 1 061 1 152 1 167 1 147
Production worker hours	2 596 59 851
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	392 356 D D 111 101 D 28 707
Quantity of electricity purchased for heat and power	229 295 304
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	822 450 D D D D D D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	D D D
Coverage ratiopercent	97
Value added\$1,000.	435 768
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	108 775 25 940 32 694 50 141
Total inventories, end of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	107 105 25 106 39 202 42 797
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	344 796 13 584 D D D D U 4 750 353 630
Depreciation charges during year \$1,000.	739 635
Total rental payments \$1,000. Buildings and other structures \$1,000.	7 925 1 218
Machinery and equipment. Total other expenses ⁴ . Response coverage ratio ⁵ Response coverage ratio ⁵ Repair and maintenance services of buildings and/or machinery ⁴ S1,000. Communications services ⁴ S1,000. Legal services ⁴ S1,000. Accounting, auditing, and bookkeeping services ⁴ S1,000. Advertising and promotional services ⁴ S1,000. Expensed computer hardware and supplies and purchased computer services ⁴ S1,000. Refuse removal (including hazardous waste) services ⁴ S1,000. Management consulting and administrative services ⁴ S1,000. All other expenses ⁴ S1,000.	6 707 93 857 98 D 1 013 D 41 D D 624 D D

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

			All emp	oloyees	Pr	roduction worke	ers		Total	Total	Total capital
Employment size class	E¹	All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331311, Alumina refining											
All establishments Establishments with —	-	9	1 528	88 198	1 133	2 596	59 851	435 768	392 356	822 450	r13 584
1 to 4 employees	-	-	-	_	-	_	_	-	-	-	_
5 to 9 employees	9	3	38	1 923	26	56	1 249	4 742	8 898	13 774	r242
20 to 49 employees	9	ĭ	b	D	D	Ď	D	D	D	D	D
50 to 99 employees	-	2	С	D	D	D	D	D	D	D	D
100 to 249 employees	-	1	С	D D	l D	D	<u>D</u>	D D	<u>D</u>	D D	D D
250 to 499 employees	-]	e	l ñ	l b	D	l ñ	ρ	l b	ρ	l ñ
500 to 999 employees	_	'	T	ט ו	ט	D	ט ו	ט	D D	ט	ט ט
1,000 to 2,499 employees		_		_	_	_	_	_	_	_	_
2,000 6111010/0003 01 111010	-	_		_	_	_	_	_	_	_	_
Administrative records ⁴	-	-	_	_	-	_	_	-	-	-	_

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	All	All employees		Production workers				Total	Total	Total capital	
product class code		estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)	
331311	Alumina refining	9	1 528	88 198	1 133	2 596	59 851	435 768	392 356	822 450	^r 13 584	
3313110	Aluminum oxide, except natural alumina	9	1 528	88 198	1 133	2 596	59 851	435 768	392 356	822 450	r13 584	

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product shipments		
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
331311	Alumina refining	N N	×	×	554 557 1 019 017	
3313110	Aluminum oxide, except natural alumina	N	X	×	554 557 1 019 017	
33131101	Aluminum oxide, except natural alumina	N N	×) ŝ	554 557	
3313110100	Aluminum oxide, except natural alumina ¹	9	X	ŝ	1 019 017 554 557	
3313110Y	Aluminum oxide, except natural alumina, nsk, total	9 N	X	Š	1 019 017	
3313110YWW	Aluminum oxide, except natural alumina, nsk, for nonadministrative-record establishments	N N	X	x x		
3313110YWY	Aluminum oxide, except natural alumina, nsk, for administrative-record establishments	N N N	X X X	X X X	- - -	

¹For additional detail, see Current Industrial Report MQ325A, Inorganic Chemicals.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331311	Alumina refining		
00900001 32518107 325000A5	Total materials	X X D 9172.4 X	D 625 521 D 22 149 30 803 34 394
21229903 33300015 00970099 00971000	Bauxite	11 709.8 X X X X X X	D 361 988 D 63 571 30 452 143 419 1 887

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.